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		CLASSIFICATION SECRET	25X1
		CENTRAL ATELLIGENCE AGENCY	REPORT NO.
		INFORMATION REPORT	CD NO. 25X1
	COUNTRY	USSR (Caucasus)	DATE DISTR. 12 Oct. 1950
	SUBJECT	Tbilisi Aircraft Plant No. 31	NO. OF PAGES 2
	PLACE	25X1 25X1	NO. OF ENCLS. 2
	ACQUIRED	25X1	(LISTED BELOW) 25X1
	DATE OF INFO.	25X1	
	THIS SOCURENT	CONTAINS INFORMATION AFFECTING THE RATIONAL DIFFERST STATES WITHIN THE LEGALING OF THE ESPIDIAGE ACT 50	
	OF ITS CONTENT SIBINED BY LAW	STATES WITHIN THE BEABLING OF THE ESPICIACE ACT SO 32. AS AMENDED, ITS TRANSMISSION OR THE REVELATION THE STATE OF THE STA	ALUATED INFORMATION
:		. 25X1	
25X1	1.	whether the following date	ta concern the single-
25X1		methods were the same for both types. Contrary to the production of single-seater, single	his previous statements
20/(1		Yak-22 type was in full swing tinued until the fall of 1947, when the production of	and was con- 25X1
		engine jet fighters was started. The designation of known. The production of two-seater, single-engine	of this last type was not
		the summer of 1948. was a training and reconnaissance plane. (1)	this 25X1
	2.	The assembly shop had a main assembly line and seve	ral sub-assembly lines
25X1		assembled at one time, several frames and wings were	e aircraft was finally simultaneously fitted.
:		The frames and wings were transported by trolleys the paint shop and from there on special carriages ly back to the paint shop.	hrough the assembly to through the final assemb-
	3.	The fuselage was constructed with only steel tubing parts. Rust was removed from the tubes and grease	s rather than aluminum
		blasting, and then they were varnished and assemble specialists confirmed that the covering of the fuse	d. (3) Pille who ware
		3 mm thick. The tubes were welded together and no for fastening the sections. The wings were connect	connections were used
		below by tubes. (4) The ribs were pressed aluminum	profiles, 2 to 2 mm
25X1		one stringer, an aluminum tube 10 cm in diameter an The fuselage covering was assembled to the structur	They were connected by d fastened by rivets. (5)
		ribs and stringers were drilled before going to the	assembly jigs.
25X1	4.	the type and number of mach hold the parts being machined. He knew that the tu	ines and fixtures to
		boring machine, fastened, and bored and said that a used for the other parts. The plant was equipped w	similar method was
		American high speed lathes. Some of the high speed steel. The origin of the other steel was unknown.	steel was Cerman Vidia-
		The state of the s	
			25\1
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		SECRET- CONFIDENTIAL	
		25X1	
25X1	5.	The plant produced all parts for the aircraft except turbines, armament, and electric equipment. No chemical treatment of sheet metals was observed. Castings were hardened in electric hardening furnaces. Aluminum sheet did not crack like duraluminum unless it was formed within an hour after the heat treatment. Cracked sheets were thrown away. Damages to aluminum sheets were mostly cracks caused by a lack of dilatability and occasionally cracks caused by folding the aluminum. Stored sheets did not have any coating but were greased.	
	6.	The turbo-jet power plant was about 32 meters long and 0.8 to 1 meter in	
25X1		was not determined. (6) Service ceiling was 11,000 meters RPM and thrust were not known. Endurance was 40 to 50 minutes. No overhauling of turbines was observed at the plant. The new power plants	25X ₂
25X1	were delivered and installed in the aircraft at the plant. Gasoline motors were used as starters the fuselage covering being assembled to the airframe by pneumatic riveting.		
	7.	Disassembly of the aircraft for shipment was done by about six men and took two to three hours. (7)	
25X1		Comments	
	(1)	The single engine fighten constructed at Thilici up to 10/7 is according to	
25X1	(1)	The single-engine fighter constructed at Tbilisi up to 1947 is, according to this report, the Yak-22. A previous report designated as Yak-22 a two-seater, jet aircraft produced at Tbilisi since mid-1948. The single-	
25X1		engine fighter constructed prior to 1947 is believed to be a training plane, possibly the Yak-11. However, since all fighters were given uneven series of type numbers (Yak-1, Yak-3, Yak-7, etc.) and combat aircraft were designated with even numbers (Yak-6, Yak-8, Yak-12, etc.) the Yak-22 should be a training aircraft, probably a jet-powered type aircraft because	
		of its high designation number. A conversion to the production of single- seater jet fighters and, in summer 1948, to the production of a two-seater version, agrees with previous information for the period reported. It was also reported that this type was utilized as a reconnaissance aircraft.	
	(2)	For reproduction of tube frame see Annex 1, sketch 2.	
	(4) (5)		
	(6)	The dimensions of the turbo-jet power plant support the assumption that the engine is of the Jumo 004 type. See Annex 2, sketch d for jet-engine.	
	(7)	The data on features and production methods of the aircraft type are considered generally to be correct.	

25X1